

FIG. 1

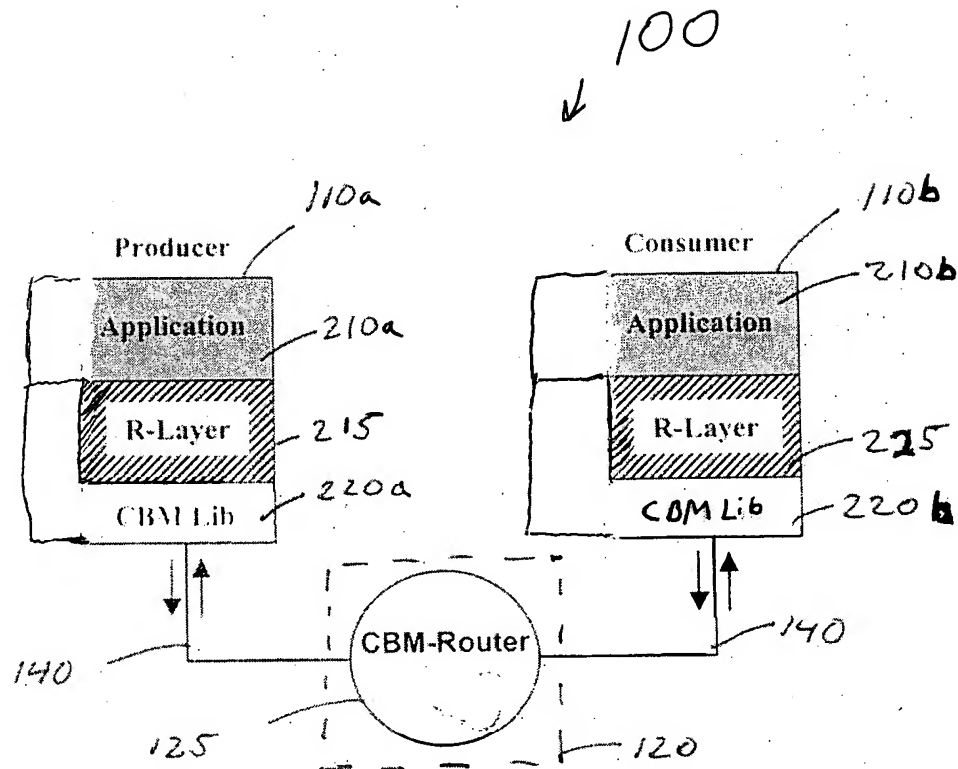


FIG. 2

Start reliable delivery of a message

300
↪

Provide consumer subscriptions

(302)

Extending the subscription

(304)

Submit the subscription from consumer side

(306)

Submit subscription on producer side for acknowledgement

(308)

Publish message

(310)

Add additional fields to message

(312)

Provide modified message to the CBM Library

(314)

Send message to the CBM router

(316)

Submit subscription to the CBM router

(318)

Compare published message with consumer subscriptions

(320)

Forward published message

(322)

Receive messages on behalf of consumer

(324)

Publish acknowledgement for each message

(326)

Truncate additional fields

(328)

Forward original message to consumer

(330)

Send acknowledgement message to CBM router

(332)

Determine R-layer associated with producer

(334)

Send acknowledgement message to producer

(336)

End reliable delivery of the message

FIG. 3

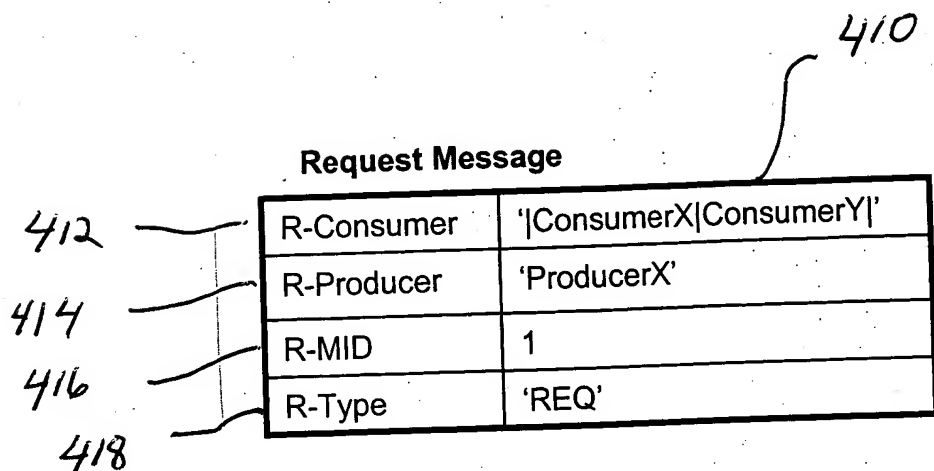


FIG. 4A

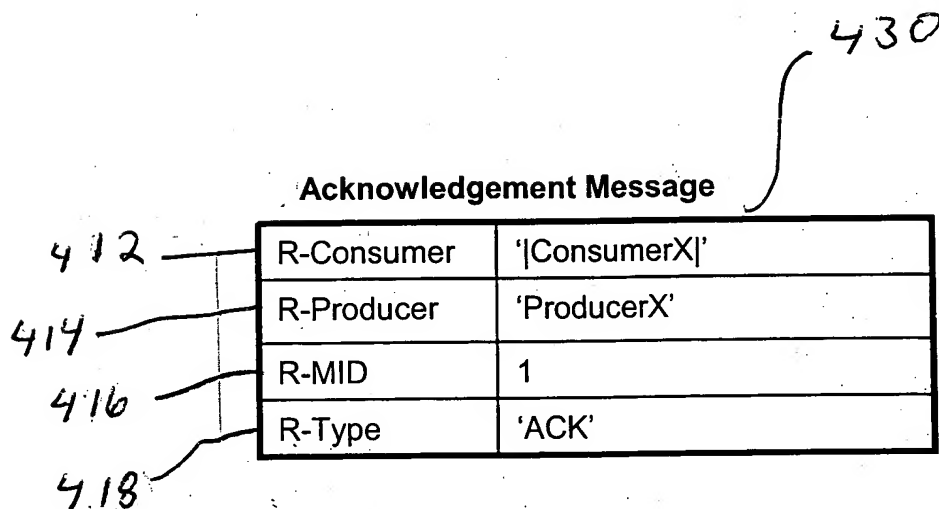


FIG. 4B

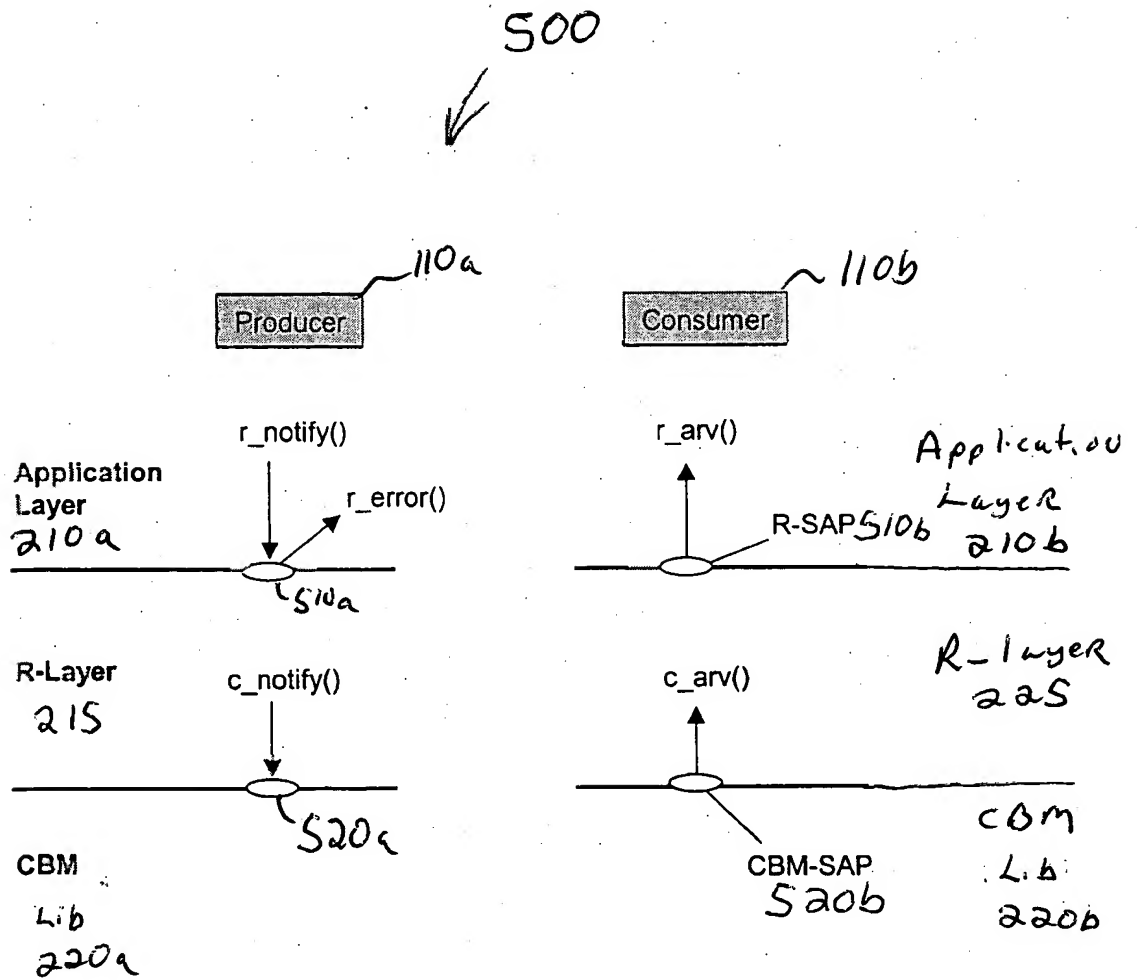


FIG. 5

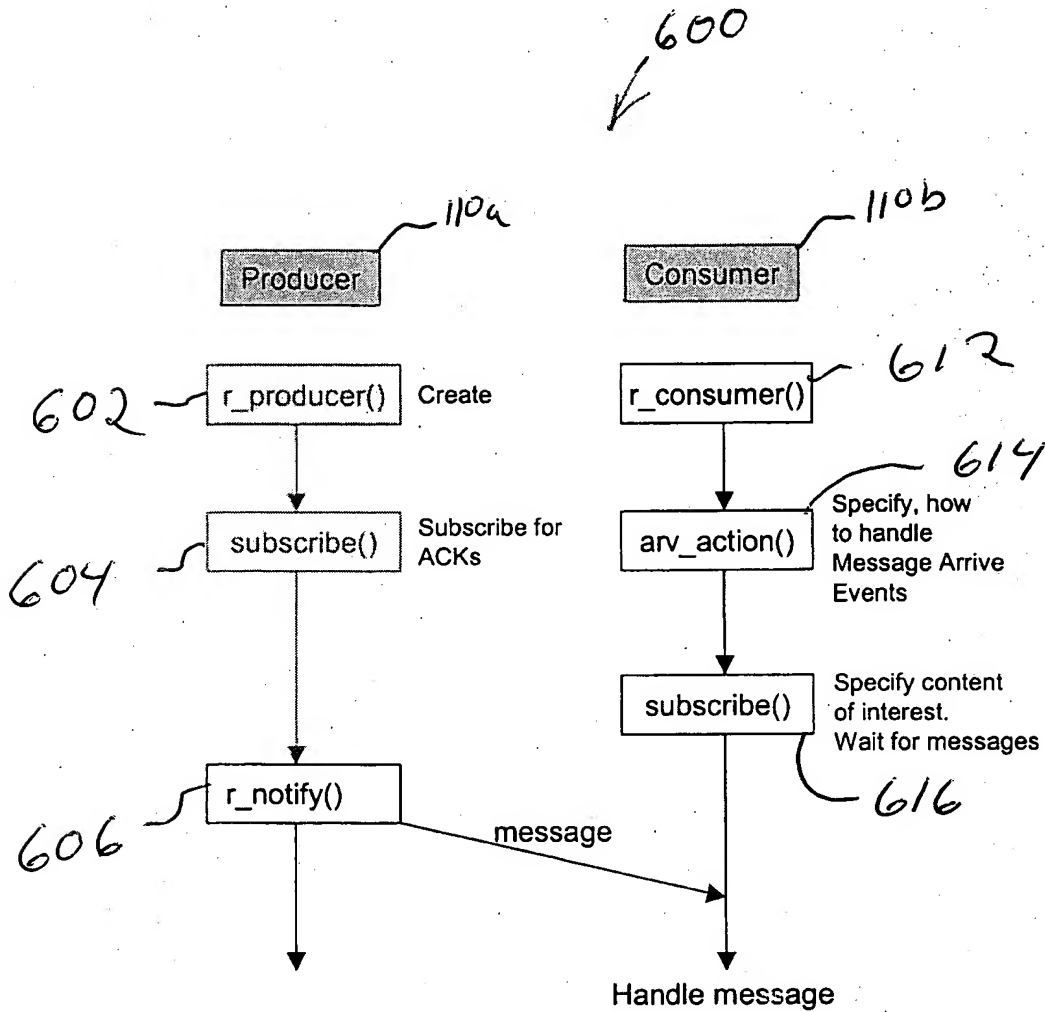


FIG. 6

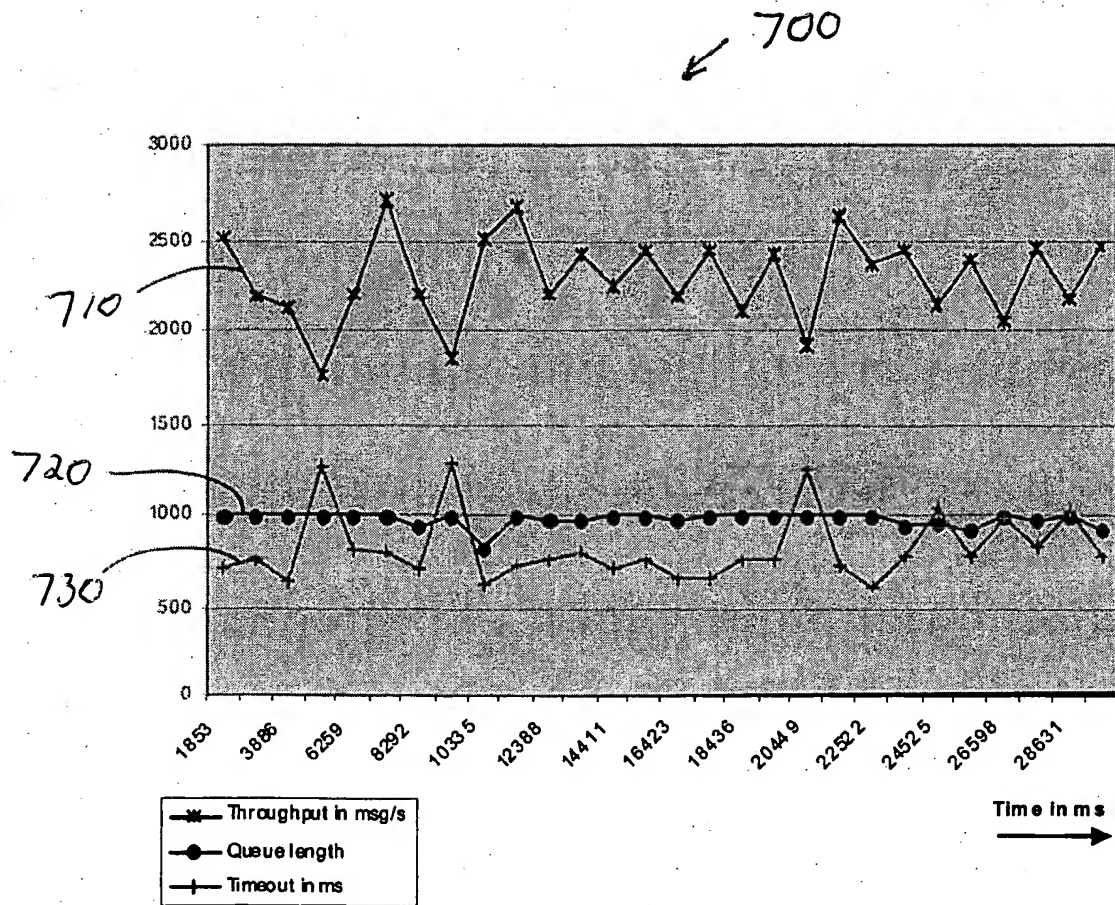


Fig. 7

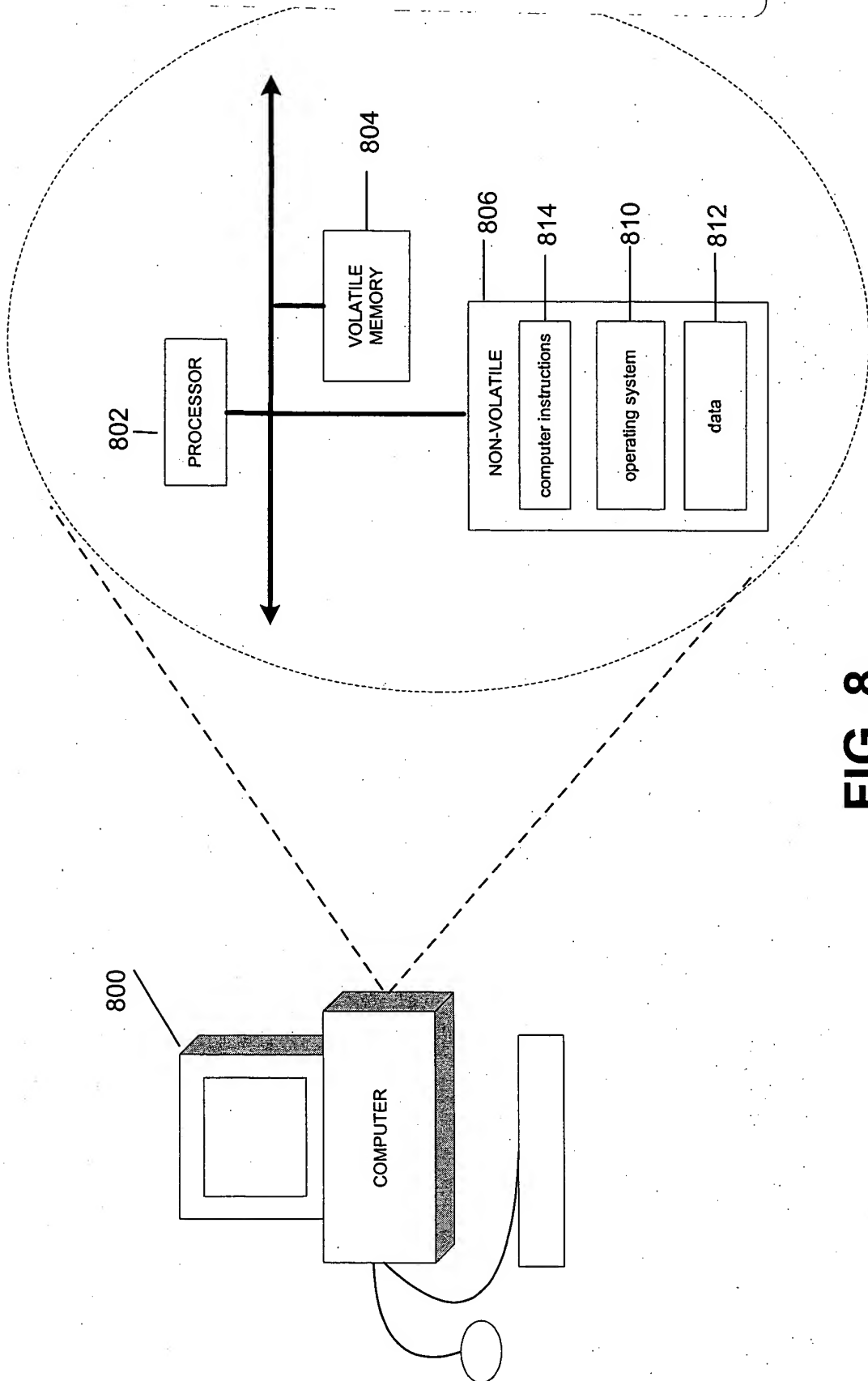


FIG. 8